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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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20999	7590	04/19/2005	EXAMINER	
FROMMERM LAWRENCE & HAUG 745 FIFTH AVENUE- 10TH FL. NEW YORK, NY 10151			NALEVANKO, CHRISTOPHER R	
		ART UNIT	PAPER NUMBER	
		2611		

DATE MAILED: 04/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/430,950	INOUE ET AL.	
	Examiner	Art Unit	
	Christopher R Nalevanko	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 08 October 2004.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 22-48 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 22-48 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 22-48 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 41-47 are rejected under 35 U.S.C. 103(a) as unpatentable over De Bey (WO 91/03112) in further view of Gelman et al (5,371,532).

Regarding Claim 41, De Bey shows a method of receiving program information comprising steps of storing a segment of the received program information (page 3 lines 29-35) and reading the stored segment of program information while buffering the program information which continues to be received (page 4 lines 5-11, 22-29, page 5 lines 5-11, page 10 lines 29-38, page 11 lines 1-17, page 13 lines 1-35). De Bey fails to show that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command. Gelman shows that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command (col. 11 lines 25-40, 65-67, CO buffer for receiving and playing out video, col. 12 lines 1-62, pause, resume, play, rewind, and fast forward

commands for controlling video). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey with the ability to pause and resume video, as shown in Gelman, so that the user could control the viewing experience and not miss vital parts when not able to view the screen.

Regarding Claim 42, De Bey shows that the program information is buffered by writing the information into a storage device and reading the program information from the storage device (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). Also, De Bey shows a real-time viewing method, which inherently reads the stored information seamlessly (page 3 lines 29-35).

Regarding Claim 43, De Bey shows a storage device for storing segments of received program information (page 3 lines 29-35, fig. 2 item 46), a buffer for buffering the program information that is received (fig. 2 item 42), and a read out device for reading out the segments of program information while the buffer is buffering received information (page 4 lines 5-11, 22-29, page 5 lines 5-11, page 10 lines 29-38, page 11 lines 1-17, page 13 lines 1-35, fig. 2 item 50). De Bey fails to show that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command. Gelman shows that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command (col. 11 lines 25-40, 65-67, CO buffer for receiving and playing out video, col. 12 lines 1-62, pause, resume, play, rewind, and fast forward commands for controlling video). It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify De Bey with the ability to pause and resume video, as shown in Gelman, so that the user could control the viewing experience and not miss vital parts when not able to view the screen.

Regarding Claim 44, De Bey shows that the program information is buffered by writing the information into a storage device and reading the program information from the storage device (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). Also, De Bey shows a real-time viewing method, which inherently reads the stored information seamlessly (page 3 lines 29-35).

Regarding Claim 45, De Bey fails to show using a hard disk drive for a buffer. Gelman shows using a hard disk for a buffer (col. 8 lines 15-27, storage memory, col. 11 lines 10-20, magnetic disk). This provides ample storage space and a relatively low expense. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey to use a hard disk drive, as shown in Gelman, to provide ample storage space at an inexpensive price.

Regarding Claim 46, De Bey fails to show using a hard disk drive for a buffer. Gelman shows using a hard disk for a buffer (col. 8 lines 15-27, storage memory, col. 11 lines 10-20, magnetic disk). This provides ample storage space and a relatively low expense. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey to use a hard disk drive, as shown in Gelman, to provide ample storage space at an inexpensive price.

Regarding Claim 47, De Bey shows that the storage is able to read in segments at the same time as it reads out segments to the display device, operating in real-time (page 10 lines 30-38, page 13 lines 10-35, page 15 lines 5-37).

3. Claims 22-24, 26-35, 37, 40, 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Bey (WO 91/03112) in further view of Gelman et al (5,371,532) and Ullrich et al (5,583,937).

Regarding Claim 22, De Bey shows a method of receiving program information supplied on plural channels (page 12 lines 5-35) comprising the steps of storing a segment of the program information supplied on one of the channels (page 3 lines 29-35), selecting a particular channel (page 12 lines 20-35), receiving the program information supplied on the particular channel (page 12 lines 5-35), and reading the stored segment of program information while buffering the program information supplied on the particular channel in response to the channel (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). De Bey fails to show that the channels are time-offset. Ullrich shows a plurality of time-offset channels (col. 2 lines 25-40, fig. 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey with the time-offset channels of Ullrich in order to provide the user with the ability to view video, nearly on demand with a relatively short wait time, without dramatically increasing the cost of implementation.

De Bey and Ulrich fail to show that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command. Gelman shows that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command (col. 11 lines 25-40, 65-67, CO buffer for receiving and playing out video, col. 12 lines 1-62, pause, resume, play, rewind, and fast forward commands for controlling video). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey and Ulrich with the ability to pause and resume video, as shown in Gelman, so that the user could control the viewing experience and not miss vital parts when not able to view the screen.

Regarding Claim 23, Ullrich shows that the time-offset is equal to the difference between the start time of a program on one channel and the start time of the program on another channel (col. 8 lines 1-42, fig. 3).

Regarding Claim 24, De Bey shows that the program information is buffered by writing the information into a storage device and reading the program information from the storage device (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). Also, De Bey shows a real-time viewing method, which inherently reads the stored information seamlessly (page 3 lines 29-35).

Regarding Claim 26, De Bey shows that the channel over which the segment is supplied and the channel over which the buffered program information is supplied are the same (page 19 lines 4-16).

Regarding Claim 27, Ullrich shows the same program information is supplied simultaneously on a plurality of time-offset channels (col. 2 lines 20-40). De Bey further shows storing segments of video at the start of the program and continuing throughout the entire program. Also, the segments that are buffered are equal to the maximum time it takes the system to respond, thus equaling the time it would take for the system to begin storing the channel to the time the channel is displayed (page 13 lines 10-36, page 15 lines 20-26).

Regarding Claim 28, De Bey shows reading out the stored segments as soon as the channel is selected (page 15 lines 20-26).

Regarding Claim 29, De Bey shows that the information is a video program (page 3 lines 10-37).

Regarding Claim 30, De Bey shows an apparatus for receiving program information supplied on plural channels (page 12 lines 5-35) comprising a storage device for storing a segment of the program information supplied on one of the channels (page 3 lines 29-35, fig. 2 item 46), a channel selector for selecting a particular channel (page 12 lines 20-35) and for receiving the program information supplied on the particular channel (page 12 lines 5-35), a buffer for buffering the program information on the particular channel (page 3 lines 31-35, fig. 2 item 42), and a read out device for reading out the stored segment of program information while buffering the program information supplied on the particular channel in response to the channel (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). De Bey fails to show that the channels are time-offset. Ullrich shows a

plurality of time-offset channels (col. 2 lines 25-40, fig. 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey with the time-offset channels of Ullrich in order to provide the user with the ability to view video, nearly on demand with a relatively short wait time, without dramatically increasing the cost of implementation.

De Bey and Ulrich fail to show that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command. Gelman shows that the reading of the stored segments is paused in response to a pause command while buffering, and is resumed at a resume command (col. 11 lines 25-40, 65-67, CO buffer for receiving and playing out video, col. 12 lines 1-62, pause, resume, play, rewind, and fast forward commands for controlling video). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey and Ulrich with the ability to pause and resume video, as shown in Gelman, so that the user could control the viewing experience and not miss vital parts when not able to view the screen.

Regarding Claim 31, Ullrich shows that the time-offset is equal to the difference between the start time of a program on one channel and the start time of the program on another channel (col. 8 lines 1-42, fig. 3).

Regarding Claim 32, De Bey shows that the program information is buffered by writing the information into a storage device and reading the program information from the storage device (page 4 lines 22-35, page 5 lines 2-17, page 8 lines 33-38, page 15 lines 20-26, page 16 lines 4-8, page 17 lines 12-31, page 19 lines 5-15). Also, De Bey

shows a real-time viewing method, which inherently reads the stored information seamlessly (page 3 lines 29-35).

Regarding Claim 33, De Bey and Ullrich fail to show using a hard disk drive for a buffer. Official Notice is given that it is well known and expected in the art to use a hard disk drive for buffers. This provides ample storage space and a relatively low expense. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a hard disk drive to provide ample storage space at an inexpensive price.

Regarding Claim 34, De Bey and Ullrich fail to show using a hard disk drive for a storage. Official Notice is given that it is well known and expected in the art to use a hard disk drive for storage. This provides ample storage space and a relatively low expense. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a hard disk drive to provide ample storage space at an inexpensive price.

Regarding Claim 35, De Bey shows that the storage is able to read in segments at the same time as it reads out segments to the display device, operating in real-time (page 10 lines 30-38, page 13 lines 10-35, page 15 lines 5-37).

Regarding Claim 37, De Bey shows that the channel over which the segment is supplied and the channel over which the buffered program information is supplied are the same (page 19 lines 4-16).

Regarding Claim 40, De Bey shows that the information is a video program (page 3 lines 10-37).

Regarding Claim 48, De Bey shows a method of supplying program information comprising transmitting program information simultaneously on a plurality of channels to a receiving station so as to permit the recording of a segment of the transmitted program information commencing from a start time and lasting no more than a predetermined duration that is less than the duration of the program information (page 3 lines 29-35, page 4 lines 5-11, page 8 lines 30-38, page 10 lines 31-38, page 11 lines 3-13, page 12 lines 5-35, page 13 lines 5-36) and reading the recorded segment of program information while buffering the program information that is transmitted on the same channel as the segment of program information or on any other of the channels (page 3 lines 29-35, page 12 lines 5-35, page 15 lines 20-26, page 17 lines 12-26). De Bey shows that the segments are broken into sizes less than the 'Maximum Response Time.' This insures that the segments can be displayed in real-time without the fear of not receiving additional segments in time for display. This segment duration is less than the duration of the program information. De Bey also shows that the buffer receives information and displays this information in real-time, effectively reading and buffering the information at the same time. De Bey fails to show a plural time offset channels, being the same from channel to channel so that the start time of the program information on one channel differs from the start time of the program information on another channel by the time offset. Ullrich shows a plurality of time offset channels wherein the start times of different channels differ by the time-offset (col. 2 lines 25-40, fig. 3). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey with the time-offset channels of Ullrich in order to provide the user with the

ability to view video, nearly on demand with a relatively short wait time, without dramatically increasing the cost of implementation.

4. Claims 25 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Bey (WO 91/03112) in further view of Gelman et al (5,371,532), Ullrich et al (5,583,937) and Blahut et al (5,446,490).

Regarding Claim 25, De Bay shows time segments that are substantially equal to the maximum response time of a selected program, but De Bey, Gelman, and Ullrich fail to specifically state that the time segments are substantially equal to the time-offset.

Blahut shows using "filler" segments provided to the user that are substantially equal to the time offset. These "filler" segments allow users to access video programming at a minimal wait time (col. 7 lines 40-67, col. 8 lines 15-65, col. 9 lines 9-43). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey, Gelman, and Ullrich with segments substantially equal to the offset time so that the system could use the same set of video segments for creating the multiple time-offset streams and providing the segmented video for storage. This would alleviate the need for two different sets of program information.

Regarding Claim 36, De Bay shows time segments that are substantially equal to the maximum response time of a selected program, but De Bey, Gelman, and Ullrich fail to specifically state that the time segments are substantially equal to the time-offset.

Blahut shows using "filler" segments provided to the user that are substantially equal to the time offset. These "filler" segments allow users to access video programming at a minimal wait time (col. 7 lines 40-67, col. 8 lines 15-65, col. 9 lines 9-43). It would have

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been obvious to one of ordinary skill in the art at the time the invention was made to modify De Bey, Gelman, and Ullrich with segments substantially equal to the offset time so that the system could use the same set of video segments for creating the multiple time-offset streams and providing the segmented video for storage. This would alleviate the need for two different sets of program information.

5. Claim 38 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Bey (WO 91/03112) in further view of Gelman et al (5,371,532), Ullrich et al (5,583,937) and Banker et al (5,357,276).

Regarding Claim 38, De Bey shows that the same program information is supplied on plural channels and the segment is formed by storing the program information on the channel commencing at a start time (page 12 lines 5-35, page 13 lines 5-35). De Bey also shows replacing stored segments with other segments from other channels (page 11 lines 5-15, page 12 lines 35-38, page 13 lines 1-10). De Bey, Gelman, and Ullrich fail to show replacing a segment if the start time of a different channel is reached. Banker shows using multiple time-offset channels that allow the user to access other program channel segments when a start time is reached, in the process of issuing a 'pause' command (col. 12 lines 25-67). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of De Bey, Gelman, and Ullrich with the ability to overwrite segments when the start time of a different channel is reached in order to provide the user with the data stream that is closest to the beginning of the stream. This allows the user to access the beginning of a stream

without the need for a large memory on the user side to store the received video that the user is not watching.

Regarding Claim 39, De Bey shows reading out the stored segments as soon as the channel is selected (page 15 lines 20-26).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Youden U.S. Patent No. 5,815,146 discloses a video on demand system with multiple data sources configured to provide VCR-like services.

Dan et al U.S. Patent No. 5,453,779 discloses scheduling policies with grouping for providing VCR control functions in a video server.

Lett et al U.S. Patent No. 5,592,551 discloses a method and apparatus for providing and interactive electronic programming guide.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher R Nalevanko whose telephone number is 703-305-8093. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris Grant can be reached on 703-305-4755. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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